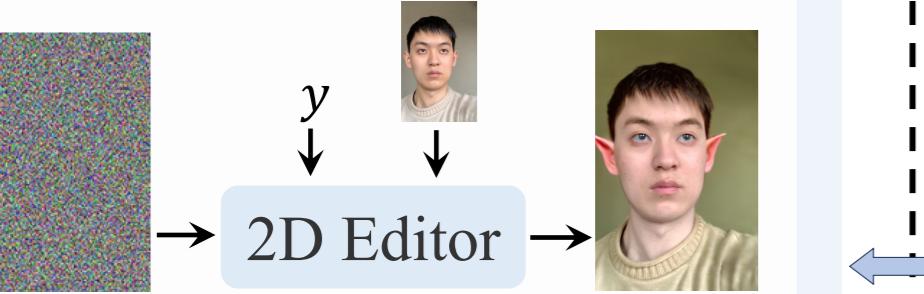
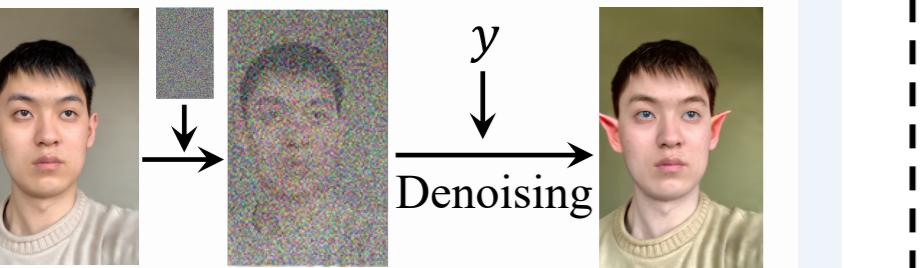


# Knowledge Distillation

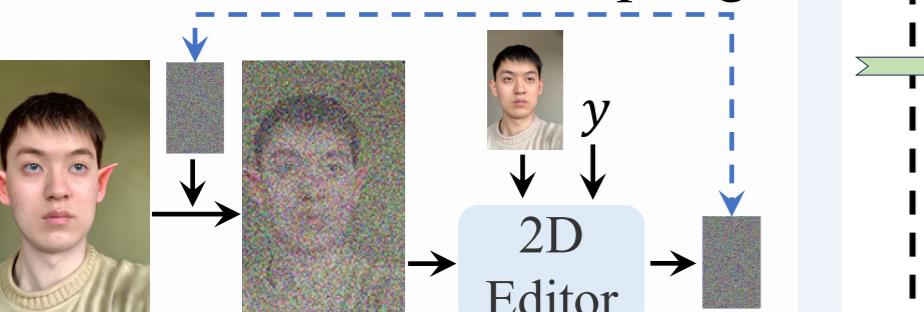
## 1. DDIM Inference



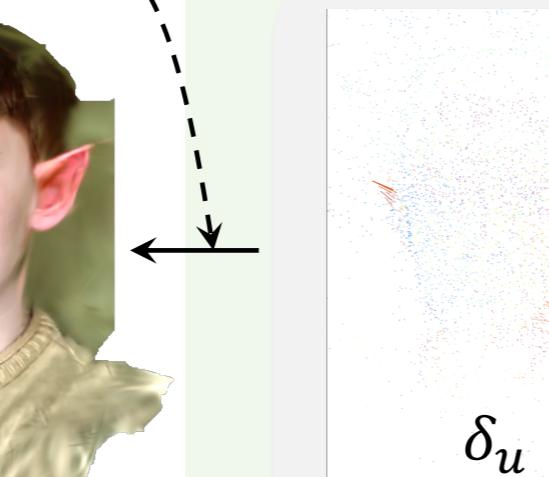
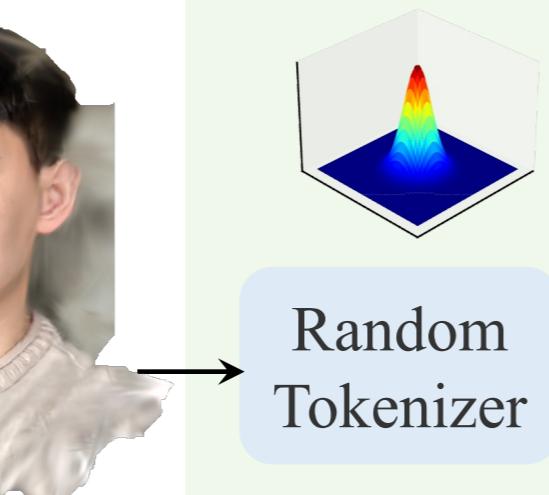
## 2. Diffusion Inversion



## 3. Score Distillation Sampling



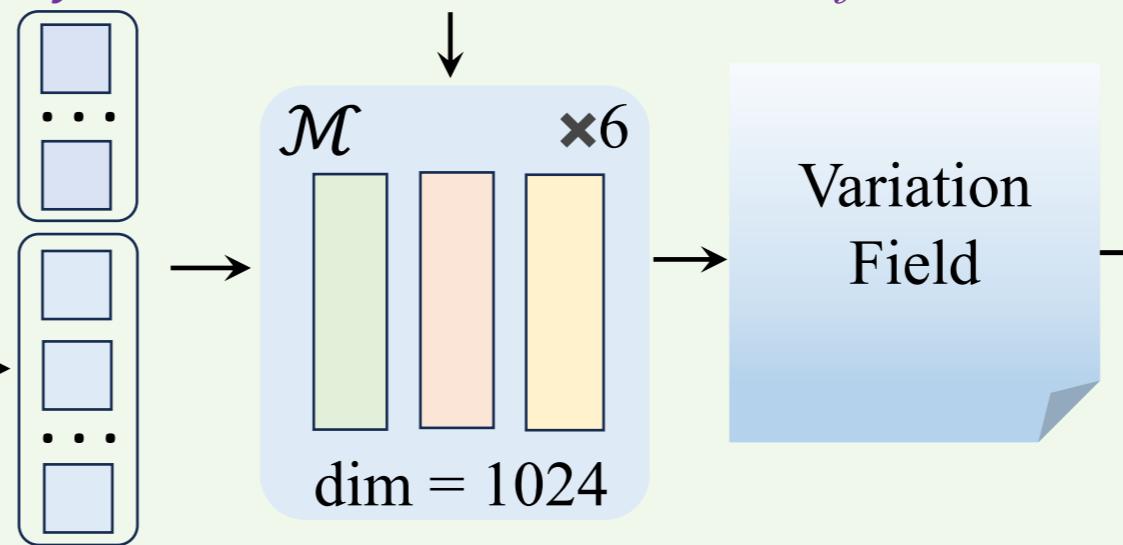
Input ( $\mathcal{X}^s$ )



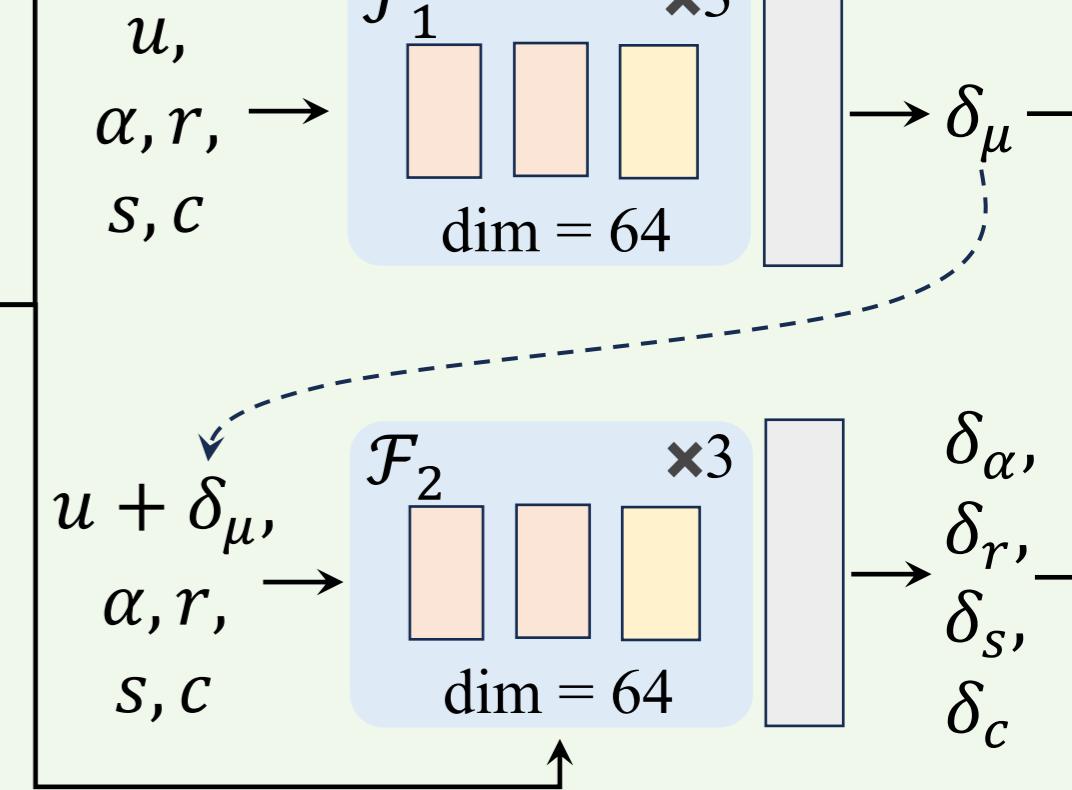
Output ( $\mathcal{X}^r$ )

# Variation Predictor ( $\mathcal{P}_\theta$ )

y: "Turn him into the Tolkien Elf"



Visualization of the Variation



Legend:

- Self-Attention (Green square)
- Cross-Attention (Orange square)
- Feed Forward (Yellow square)
- Zero Linear (Light Blue square)
- Loss Calculation (Blue arrow)
- Gradient (Green arrow)